

FIG. 1

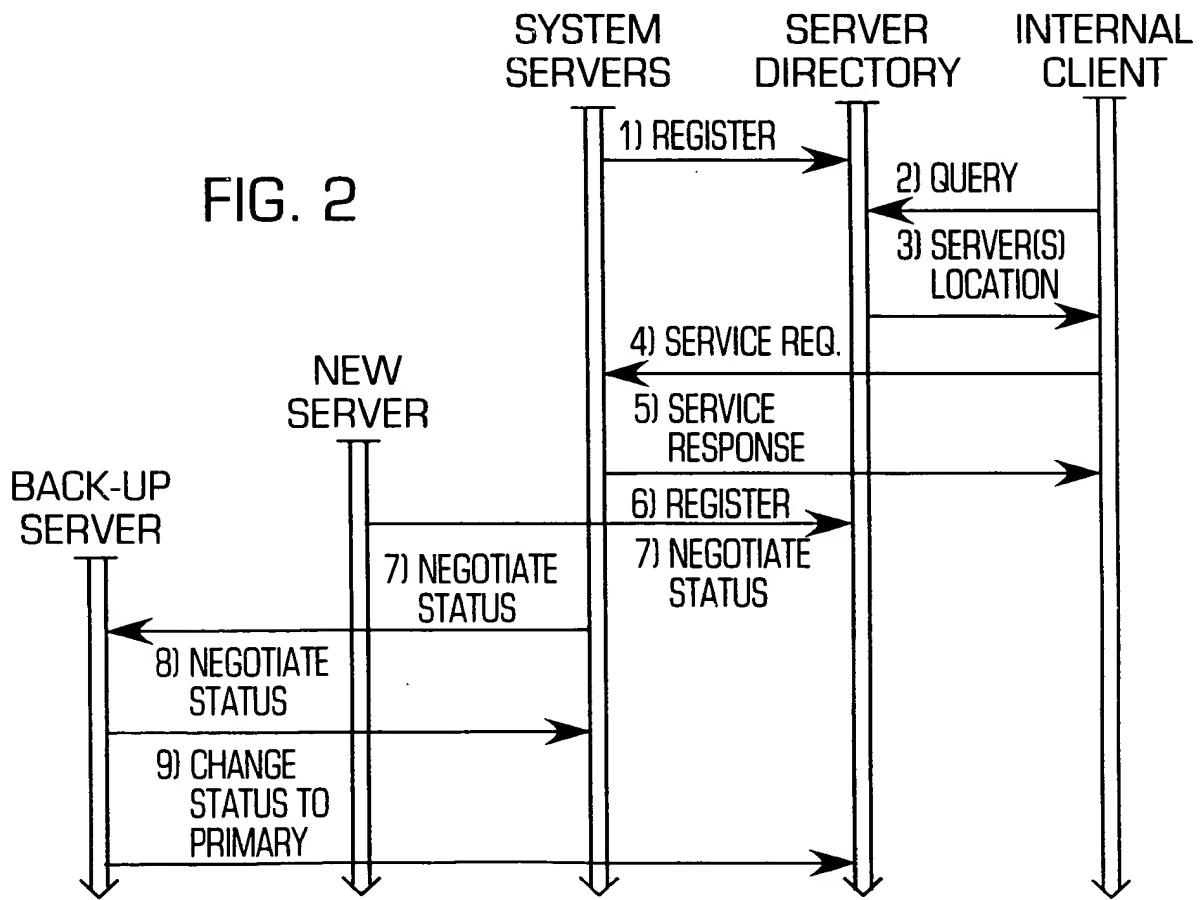


FIG. 2

Server Functions

Function *Start_Server*

Out (**server features, server location**)

Function *Push_Server_Status*

If server status change

Out (**change in status**)

FIG. 3A

Server Directory Interface

Function *Register_Server*

In (**server features, server location**)

Modify directory to include new features

Function *Update_Register*

In (**change in status**)

Modify directory to include status change

Function *Service_Request*

In (**Service Request**)

Execute request as independent operation without any coupling

Function *Load_Balance*

In (**Server Directory**)

If load imbalance condition 1

 update server directory to redistribute load

If load imbalance condition 2

 change back-up server status to primary server status

If load imbalance condition 3

 change primary server status to back-up server status

FIG. 3B

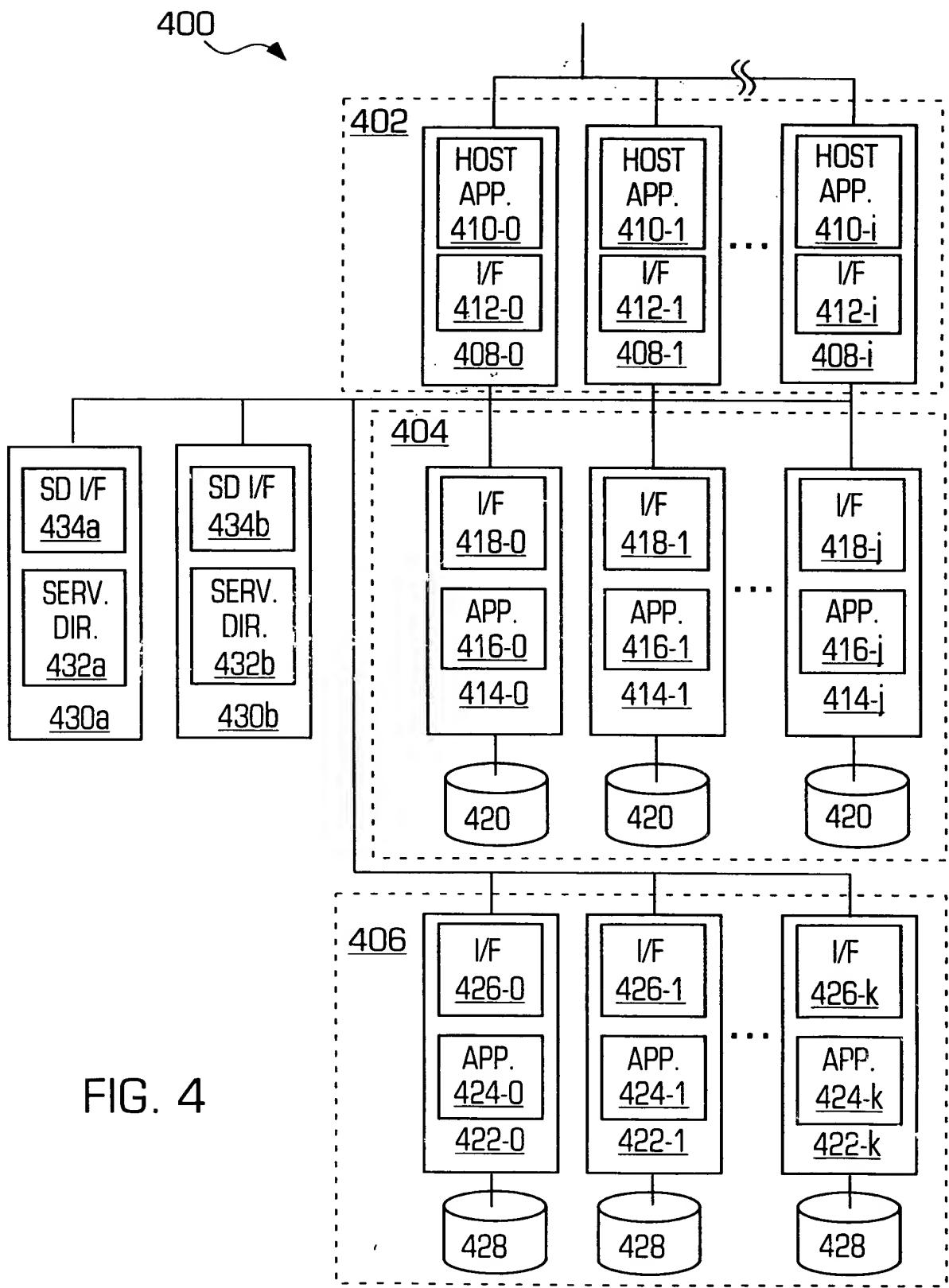
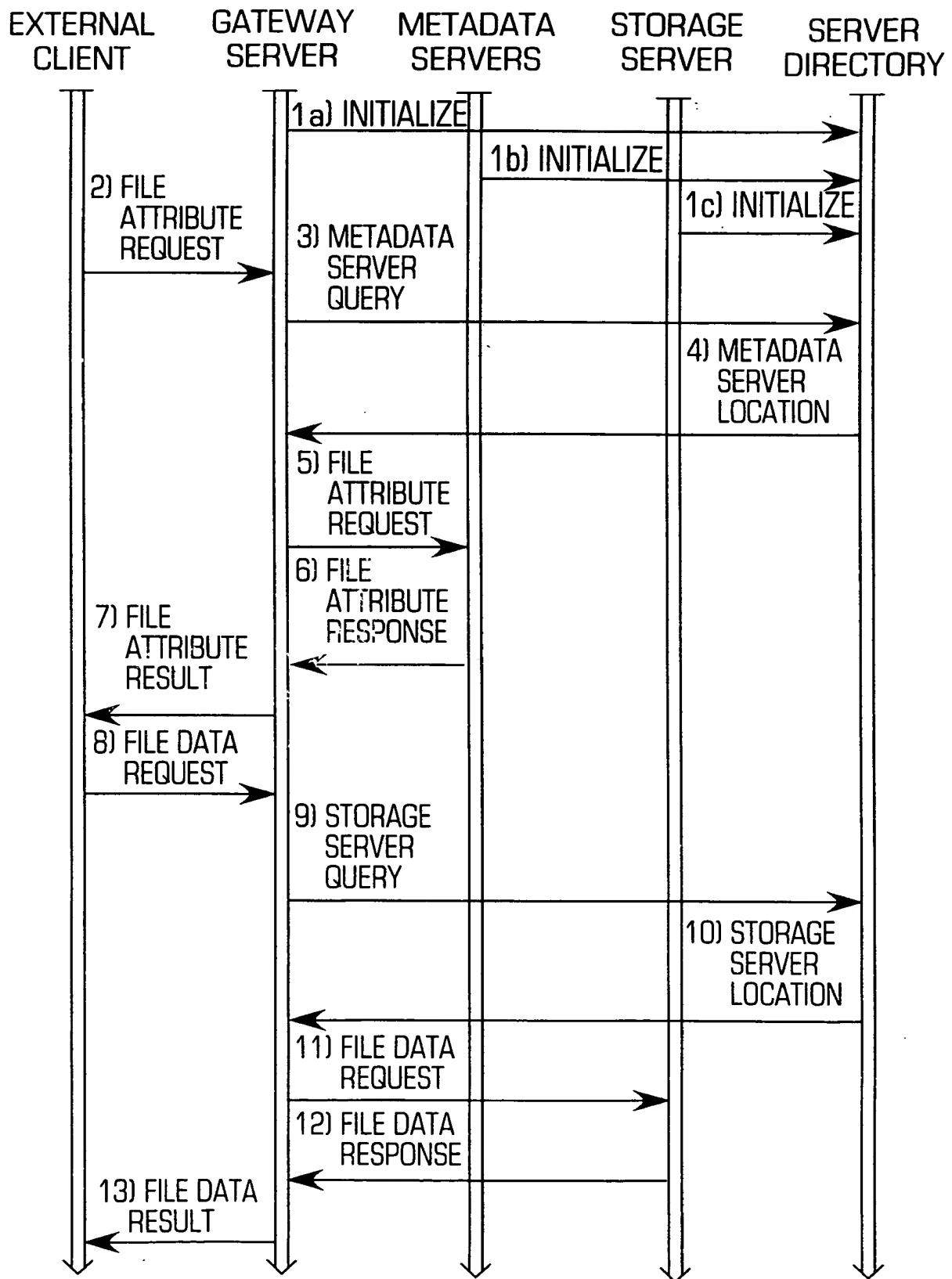


FIG. 4

FIG. 5



Gateway_Server Functions

Function *Register_Gateway_Server*

Out (**hosted application service requirements, gateway server location**)

Function *Gateway_Server_Status*

If gateway server resources out of range

Out (**features that are out of range**)

FIG. 6A

Metadata_Server Functions

Function *Register_Metadata_Server*

Server Features = location, metadata range accessed, storage total, storage used

Out (**Server Features**)

Function *Metadata_Server_Status*

If metadata server resources out of range

Out (**features that are out of range**)

FIG. 6B

Storage_Server Functions

Function *Register_Storage_Server*

File Server Features = location, range of files accessed, storage total, storage used

Out (**Storage Server Features**)

Function *Storage_Server_Status*

If storage server values out of range

Out (**features that are out of range**)

FIG. 6C

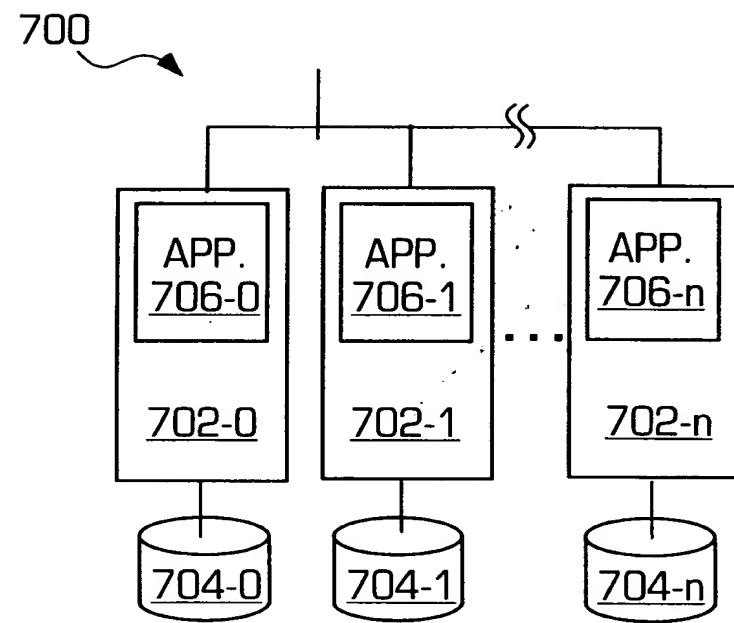


FIG. 7

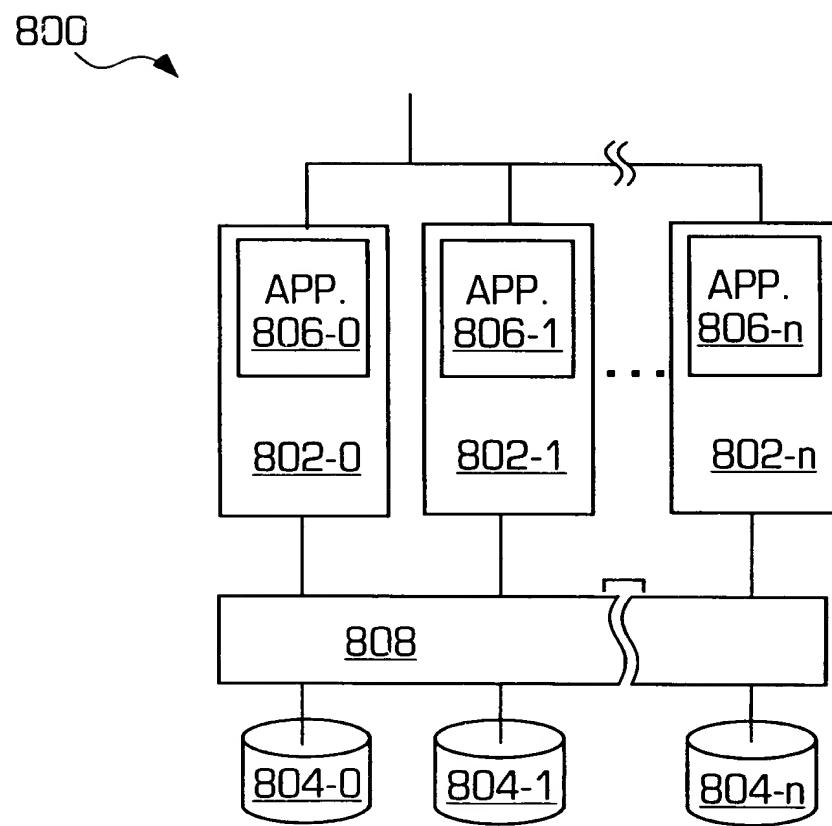


FIG. 8